# Conclusion

By means of a series of formulas which describe the relation between different parameters, we can substitute certain data into these equation sets, such as experience coefficient, ratio about height and depth of Zambezi River and other essential data. In addition to the calculations of each unit in this dam system, there are several standards which are made by analyzing the actual situation, for us to select the best option of great benefit. What the prior standard we should consider of is the capacity of flood storage. Now that we have the formulas to calculate the capacity of every single dam, we can depend on that to calculate the sum of the whole flood storage of this system. Flood storage capacity of new system should be better or equal to the Kariba Dam, so that we can choose the best design criteria, for example, height of dams. Besides, cost of this project is another important factor, we can compare the total cost of new system to other options, choose the appropriate design parameter. Using these two equations we can choose optimization of this problem. In these two requirements, we mainly consider about two aspects which are cost and capacity of flood storage, using formula to describe process of flood discharging, and utilizing equation set to find the best scheme of building a series of dams.